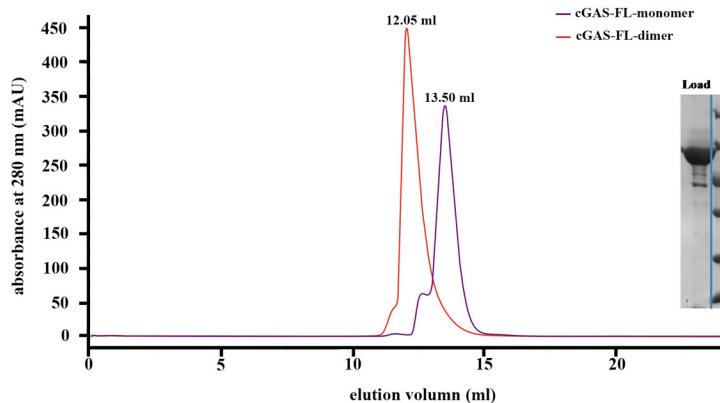
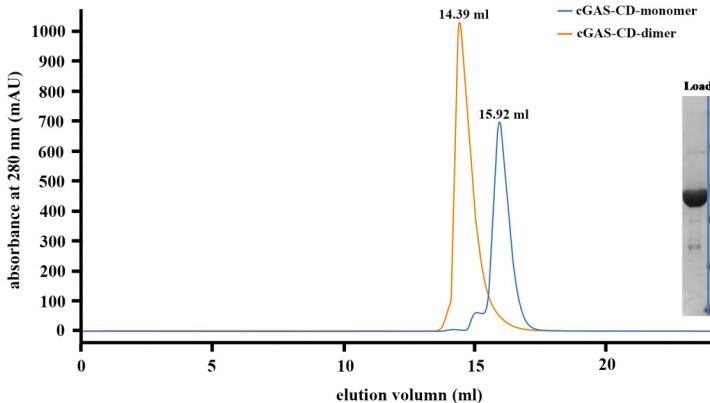


**a**

cGAS-FL-monomer

cGAS-FL-dimer

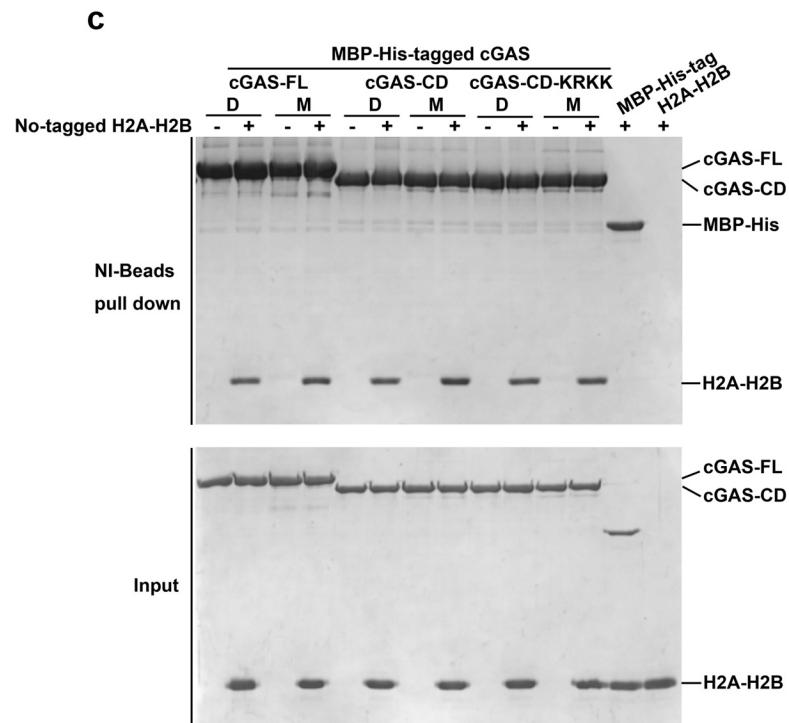
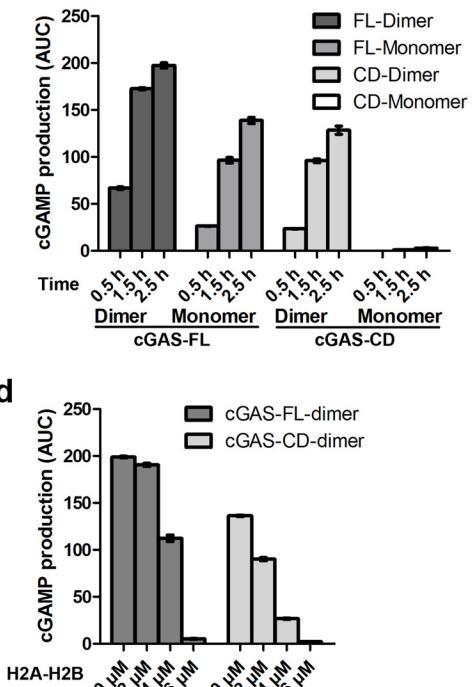
**b**

cGAS-CD-monomer

cGAS-CD-dimer

cGAS-CD-monomer

cGAS-CD-dimer

**c****d**

**Supplementary information, Fig. S1 Analysis of cGAS proteins in different states.** **a** Gel filtration profiles and SDS PAGE results of cGAS-FL (above) and cGAS-CD (below). **b** Activity analysis of 5  $\mu$ M cGAS-FL or cGAS-CD in dimer or monomer states against 7  $\mu$ M 45 bp dsDNA. Data are represented as mean values and SEM ( $n=3$ ). **c** Pull-down assays showing binding of MBP-His-tagged cGAS-FL and cGAS-CD in dimer or monomer states to purified H2A-H2B. The bound proteins were analyzed by coomassie blue staining. **d** The inhibitory effects of 0–6  $\mu$ M purified H2A-H2B on the enzymatic activity of 5  $\mu$ M cGAS dimer against 7  $\mu$ M 45 bp dsDNA were examined. Data are represented as mean values and SEM ( $n=3$ ).